

Team Number _____ School Name _____

Participants _____

- | | |
|------------------------------|------------------------------|
| 1. B | 20. interference |
| 2. C | 21. a. bright |
| 3. B (false) | b. constructive interference |
| 4. B | 22. emission spectrum |
| 5. 1,700m | 23. red |
| 6. Tanning/browning | 24. C |
| 7. B | 25. 8 minutes 20 seconds |
| 8. D | 26. Gamma rays are higher |
| 9. A | frequency so they have |
| 10. Rayleigh Surface | higher energy |
| 11. Doppler Effect | 27. B |
| 12. 9 | 28. D |
| 13. B | 29. A |
| 14. 2.78×10^{-4} Hz | 30. red, green, blue |
| 15. a. less than | 31. Infrared |
| b. 1.5m | 32. C |
| 16. modulating the amplitude | 33. Destructive interference |
| 17. 340 m/s | 34. B |
| 18. A | 35. Amplitude 12 cm |
| 19. red | Wavelength 116cm |
| | Period 0.28 s |
| | Speed 454 cm/s |

- 36. B
- 37. M
- 38. Q
- 39. B
- 40. A
- 41. N
- 42. I
- 43. E
- 44. O
- 45. J
- 46. G
- 47. F
- 48. L
- 49. P
- 50. D
- 51. K
- 52. H
- 53. C

Station 1:

- 1. B
- 2. A
- 3. B

Station 2:

- A. Gamma ray
- B. X ray
- C. Ultraviolet ray
- D. Visible light
- E. Infrared

F. Microwave

G. Radio wave

Station 3:

- A. Incident Ray
- B. Reflected Ray
- C. Angle of Incidence
- D. Angle of Reflection
- E. Normal

Station 4:

Angle 1.34

Station 5:

- A. Yellow
- B. Red
- C. Green
- D. Blue

Station 6:

- A. Wavelength
- B. Amplitude
- C. Trough
- D. Crest
- E. 6.28 m
- F. 47.738 MHz